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30 Nov 56

## MEMORANDUM TO THE RECORD

SUBJECT: Trip Report to

DOC	10	REV DATE	18 MAR 1980	BY	064540
ORIG COMP	033	CFI	56	TYPE	02
ORIG CLASS	3	PAGES	2	REV CLASS	C
JUST	22	NEW REV	2010	AUTH:	HR 70-2

1. On 30 November [redacted] of OC-E met with [redacted]. We were shown the suggested front panel designs for the modified RT-4 transmitter. [redacted] favored one from a mechanical design standpoint but its disadvantage was the main power circuit breakout was operated from side to side. [redacted] suggested the installation of a single AC voltmeter with a 0 to 250 volt scale and a toggle switch to measure input and output voltages. This brought about discussion on many changes possible in the panel configuration. It was decided that [redacted] would make new drawings and we would be notified when these drawings were ready for discussion.

2. [redacted] asked about the filter capacitors leaking oil. [redacted] said two members of OC-E had made a series of tests on three RT-4 transmitters and a copy of the report of these tests would be brought to [redacted].

3. The problem of insufficient drive at the higher frequencies when using the PMO was discussed. The task on this RT-4 modification specifies the removing of a resistor in the input grid circuit and probably installing a TMC impedance matching step up transformer. [redacted] said the transformer may not be necessary. If it is, [redacted] will have to supply the transformer.

4. In the discussion of the modulator for the RT-4, [redacted] suggested using a commercially available speech amplifier which could be rack mounted in the modulator or removed for desk mounting. [redacted] said it would be necessary to have facilities for both carbon microphone and 600 ohm balanced inputs.

5. The contract calls for seven RT-4s and seven PMOs to be government furnished equipment. They have on hand two RT-4s and one PMO. [redacted] will requisition five more RT-4s and six more PMOs.

6. The next subject discussed was extending the range of the 16-F and 231-D transmitters. The report on operating the 231-D in the three to four megacycle range has been received and this project would be considered finished. [redacted] will now take up the task of determining the modification necessary to operate the 16-F in the two to four megacycle range when external excitation is supplied by a PMO. [redacted] brought out a preliminary report on this project, and he and [redacted] think this project can be finished soon. Preliminary tests have been made on extending the frequency range of the 231-D to thirty megacycles.


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7. The instruction manual on the AN/FRR-48 synchronous detection receiver was left with 

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